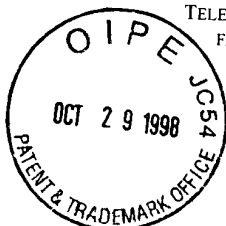


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October 26, 1998

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Re: U.S. Patent Application No. 09/009,802
Entitled: *Novel CRSP Protein and Nucleic Acid
Molecules and Uses Therefor*
Inventor: Sean A. McCarthy
Filed: January 20, 1998
Our Ref. No.: MEI-008

Dear Sir:

I enclose herewith for filing in the above-identified application the following:

1. Information Disclosure Statement;
2. Form PTO-1449;
3. Full copies of references cited in the Form PTO-1449; and
4. Mailroom postcard.

No additional costs are believed to be due in connection with the filing of this Information Disclosure Statement. However, please charge any necessary fees in connection with the enclosed statement to our Deposit Order Account No. 12-0080. For this purpose, a duplicate of this sheet is attached.

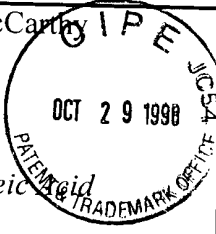
I hereby certify that this correspondence is deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on: 10/26/98
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Amy E. Mandragouras, Registration No. 36,207

Respectfully submitted,
LAHIVE & COCKFIELD, LLP

Amy E. Mandragouras
Registration No. 36,207
Attorney for Applicant

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of: Sean A. McCarthy
Serial No.: 09/009,802
Filed: January 20, 1998
For: *Novel CRSP Protein and Nucleic Acid Molecules and Uses Therefore*
Attorney Docket No.: MEI-008



Group Art Unit: 1634

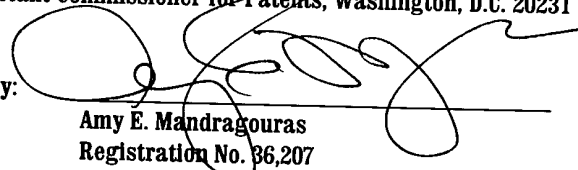
Examiner:

Assistant Commissioner for Patents
Washington, D.C. 20231

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By: 
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Registration No. 36,207
Attorney for Applicant

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

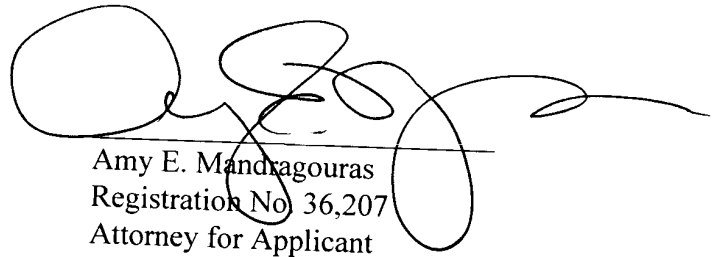
Applicant and his attorney are aware of the following publications and information, listed on the attached PTO Form 1449, and in accordance with 37 CFR §1.97 hereby submit these publications for the Examiner's consideration prior to the mailing date of a first Office Action on the merits. Publications AA, AH, AO, BE, BL, CA, CF, and CP were cited in an International Search Report issued September 25, 1998 during the prosecution of PCT/US98/07894 which corresponds to the above-referenced application. The undersigned hereby certifies that publications AA, AH, AO, BE, BL, CA, CF, and CP were cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement. A full copy of each cited publication is enclosed.

This statement is not to be interpreted as a representation that the cited publications are material, that an exhaustive search has been conducted, or that no other relevant information exists. Nor shall the citation of any publication herein be construed *per se* as a representation that such publication is prior art. Moreover, Applicant understands that the Examiner will make an independent evaluation of the cited publications.

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Respectfully submitted,

LAHIVE & COCKFIELD, LLP



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Date: October 26, 1998

APPLICANT FACSIMILE OF FORM PTO-1449 REV 7-80	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY DOCKET NO. MEI-008	SERIAL NO. 09/009,802
LIST OF PUBLICATIONS CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT Sean A. McCarthy	
		FILING DATE January 20, 1998	GROUP

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA	5,525,486	June/96	Honjo et al.	435	69.1	
AB						

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
AC					
AD					

OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

AE	Austin, T.W. et al., "A role for the Wnt gene family in hematopoiesis: Expansion of multilineage progenitor cells", <i>Blood</i> , 89(10) :3624-3635 (1997);
AF	Cadigan, K.M et al., "Wnt signaling: A common theme in animal development", <i>Genes & Development</i> , 11 :3286-3305 (1997);
AG	Glinka, A et al., "Dickkopf-1 is a member of a new family of secreted proteins and functions in head induction", <i>Nature</i> , 391 :357-362 (1998);
AH	Klein R.D. et al., "Selection for genes encoding secreted proteins and receptors", <i>Pro. Natl. Acad. Sci, USA</i> , 93 :7108-7113 (1996);
AI	Ligon, A.H. et al., "Identification of a novel gene product, <i>RIG</i> , that is down-regulated in human glioblastoma", <i>Oncogene</i> , 14(9) :1075-1081 (1997);
AJ	Nusse, R. et al., "Wnt genes", <i>Cell</i> , 69 :1073-1087 (1992);
AK	Parr, B.A. et al., "Wnt genes and vertebrate development", <i>Current Opinion in Genetics and Development</i> , 4 :523-528 (1994);
AL	Sawada, K. et al., "Characterization of terminally differentiated cell state by categorizing cDNA clones derived from chicken lens fibers", <i>Intl. J. Dev. Biol.</i> , 40 :531-535 (1996);
AM	GenBank™ Accession Number AA018255 for Soares retina N2b4HR homo sapiens cDNA clone 361535 5', mRNA sequence;
AN	GenBank™ Accession Number AA031969 for Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone 470646 3', mRNA sequence;
AO	GenBank™ Accession Number AA037322 for Soares_senescent_fibroblasts_NbHSF Homo sapiens cDNA clone 325915 5', mRNA sequence;
AP	GenBank™ Accession Number AA041360 for Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone 376472 3', mRNA sequence;
AQ	GenBank™ Accession Number AA063859 for Stratagene mouse testis (#937309) Mus musculus cDNA clone 514640 5' similar to TR:G517093 G517093 HYPOTHETICAL 39.2 KD PROTEIN; mRNA sequence;
AR	GenBank™ Accession Number AA073904 for Stratagene mouse heart (#937316) Mus musculus cDNA clone 536577 5', mRNA sequence;
AS	
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LIST OF PUBLICATIONS CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT Sean A. McCarthy	
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OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

BA	GenBank™ Accession Number AA107210 for Stratagene mouse testis (#937308) Mus musculus cDNA clone IMAGE:516168 5' similar to TR:G517093 G517093 HYPOTHETICAL 39.2 kd protein; mRNA sequence;
BB	GenBank™ Accession Number AA115337 for Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone 501425 5', mRNA sequence;
BC	GenBank™ Accession Number AA155928 for Stratagene endothelial cell 937223 Homo sapiens cDNA clone 590026 5', mRNA sequence;
BD	GenBank™ Accession Number AA209468 for Stratagene hNT neuron (#937233) Homo sapiens cDNA clone 648310 3', mRNA sequence;
BE	GenBank™ Accession Number AA253464 for Soares_NhHMPu_S1 Homo sapiens cDNA clone 669375 3', mRNA sequence;
BF	GenBank™ Accession Number AA265561 for Soares mouse lymph node NbMLN Mus musculus cDNA clone 718668 5' similar to TR:G517093 G517093 HYPOTHETICAL 39.2 KD PROTEIN; mRNA sequence;
BG	GenBank™ Accession Number AA351624 for Infant brain Homo sapiens cDNA 5' end similar to RIG, mRNA sequence;
BH	GenBank™ Accession Number AA397836 for Soares_testis_NHT Homo sapiens cDNA clone 728407 5' similar to TR:G517093 G517093 HYPOTHETICAL 39.2 KD PROTEIN; mRNA sequence;
BI	GenBank™ Accession Number AA425947 for Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone 760299 3', mRNA sequence;
BJ	GenBank™ Accession Number AA497850 for Stratagene mouse testis (#937308) Mus musculus cDNA clone 917486 5' similar to TR:G517093 G517093 HYPOTHETICAL 39.2 KD PROTEIN; mRNA sequence;
BK	GenBank™ Accession Number AA497886 for Stratagene mouse testis (#937308) Mus musculus cDNA clone 917858 5' similar to TR:G517093 G517093 HYPOTHETICAL 39.2 KD PROTEIN; mRNA sequence;
BL	GenBank™ Accession Number AA565546 for NCI_CGAP_GC2 Homo sapiens cDNA clone IMAGE:1016173 3', mRNA sequence;
BM	GenBank™ Accession Number AA628979 for Soares testis NHT Homo sapiens cDNA clone 743604 3' similar to TR:G517093 G517093 HYPOTHETICAL 39.2 KD PROTEIN; mRNA sequence;
BN	GenBank™ Accession Number AA641247 for NCI_CGAP_Pr24 Homo sapiens cDNA clone IMAGE:1173698 3', mRNA sequence;
BO	GenBank™ Accession Number AA692959 for Knowles Solter mouse 2 cell Mus musculus cDNA clone 1125007 5', mRNA sequence;
BP	GenBank™ Accession Number AB005216 for Homo sapiens mRNA for Nck, Ash and phospholipase C gamma-binding protein NAP4, partial cds;
BQ	GenBank™ Accession Number AC000127 for Human Cosmid g1572c198, complete sequence;
BR	GenBank™ Accession Number AC003099 for Homo sapiens chromosome 4q25, BAC clone B284B3, complete sequence;
BS	GenBank™ Accession Number AF030433 for Mus musculus Dickkopf-1 (mdkk-1) mRNA, complete cds;
BT	GenBank™ Accession Number AF030434 for Xenopus laevis Dickkopf-1 (Xdkk-1) mRNA, complete cds;
BU	

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		FILED DATE January 20, 1998	GROUP

OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

CA	GenBank™ Accession Number AF034208 for Homo sapiens RIG-like 7-1 mRNA, complete cds;
CB	GenBank™ Accession Number B39066 for Human Genomic Sperm Library C Homo sapiens genomic clone Plate=CT 771 Col=13 Row=C, genomic survey sequence;
CC	GenBank™ Accession Number D26311 for Chicken mRNA for unknown protein, complete cds;
CD	GenBank™ Accession Number G05905 for human STS WI-6501;
CE	GenBank™ Accession Number H71273 for Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone 229921 5', mRNA sequence;
CF	GenBank™ Accession Number H99266 for Soares melanocyte 2NbHM Homo sapiens cDNA clone 260362 3', mRNA sequence;
CG	GenBank™ Accession Number L17318 for Rattus norvegicus proline-rich proteoglycan (PRG2) mRNA, complete cds;
CH	GenBank™ Accession Number M64793 M36414 for Rat salivary proline-rich protein (RP15) gene, complete cds;
CI	GenBank™ Accession Number M98807 for Xenopus laevis hoggin mRNA, complete cds;
CJ	GenBank™ Accession Number N94525 for Soares_senescent_fibroblasts_NbHSF Homo sapiens cDNA clone 309678 3', mRNA sequence;
CK	GenBank™ Accession Number U32331 for Homo sapiens RIG mRNA, complete cds;
CL	GenBank™ Accession Number U38801 for Rattus norvegicus high molecular weight DNA polymerase beta (mpolb) mRNA, complete cds;
CM	GenBank™ Accession Number W51876 for Soares_senescent_fibroblasts_NbHSF Homo sapiens cDNA clone 324400 3', mRNA sequence;
CN	GenBank™ Accession Number W39572 for Soares_senescent_fibroblasts_NbHSF Homo sapiens cDNA clone 322829 5', mRNA sequence;
CO	GenBank™ Accession Number W45126 for Soares_senescent_fibroblasts_NbHSF Homo sapiens cDNA clone 322864 3', mRNA sequence;
CP	GenBank™ Accession Number W55979 for Soares_senescent_fibroblasts_NBhh19w Homo sapiens cDNA clone 340680 5', mRNA sequence;
CQ	GenBank™ Accession Number W61032 for Soares_senescent_fibroblasts_NBHSF Homo sapiens cDNA clone 326135 5' similar to contains element MER22 repetitive element; mRNA sequence;
CR	GenBank™ Accession Number W79975 for Soares mouse embryo NbME13.5 14.5 Mus musculus cDNA clone 402616 5', mRNA sequence;
CS	GenBank™ Accession Number X78612 for G.gallus genomic DNA repeat region, clone 12F6.
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